

TRANSMISSION CABLE FOR COMPUTER

BACKGROUND OF THE INVENTION

1. Field of the Invention:

The present invention relates to a transmission cable for
5 computer and more particularly, to such a transmission cable,
which has a transparent insulative outer shell and uses a
cord-like electroluminescent lamp to indicate normal connection
of the cable between the computer and the peripheral apparatus
and signal transmission status through the cable.

10 2. Description of the Related Art:

FIG. 1 illustrates a transmission cable for computer
according to the prior art. According to this design, the
transmission cable 10 comprises a cable 12 and two electric
connectors 11, 11' at the ends of the cable 12. The transmission
15 cable 10 can be a USB (universal serial bus) design or IEEE1394
parallel bus design. The electric connectors 11, 11' each have a
LED (light emitting diode) mounted on the inside. One electric
connector 11 or 11' has a detecting circuit (not shown) provided
on the inside. The detecting circuit detects connection and
20 signal transmission status of the transmission cable 10, and
controls the operation of the LEDs of the electric connectors 11,
11' subject to detection result. This design of transmission cable

is functional, however it is still not satisfactory in use. Because the electric connectors 11, 11' are respectively connected to the computer and the peripheral apparatus, the computer and the peripheral apparatus may keep the light of the LEDs of the electric connectors 11, 11' from sight. Further, when several transmission cables are arranged together, the user cannot quickly inspect the connection status of one specific transmission cable from a group of transmission cables.

SUMMARY OF THE INVENTION

10 The present invention has been accomplished under the circumstances in view. It is one object of the present invention to provide a transmission cable for computer, which gives off light through the length of the cable to indicate normal connection of the cable between the computer and the peripheral apparatus. It is another object of the present invention to provide a transmission cable for computer, which gives off a particular color of light for quick identification upon normal connection of the cable between the computer and the peripheral apparatus. To achieve these and other objects of the present invention, the transmission cable comprises two electric connectors for connection to the computer and the peripheral apparatus respectively, each electric connector comprising an

indicator light, a cable connected between the electric connectors, a cord-like electroluminescent lamp installed in the cable and electrically connected between the electric connector, and a control device installed in the cable and electrically
5 connected to the cord-like electroluminescent lamp and the indicator lights of the electric connectors. The control device comprises a detecting and starting circuit adapted to detect electric connection of the electric connectors between the computer and the peripheral apparatus, and to drive on/off the
10 cord-like electroluminescent lamp and the indicator lights of the electric connectors subject to the connection status of the electric connectors between the computer and the peripheral apparatus.

BRIEF DESCRIPTION OF THE DRAWINGS

15 FIG. 1 is a schematic drawing of a transmission cable for computer according to the prior art.

FIG. 2 is an exploded view of a transmission cable for computer according to the present invention.

FIG. 3 is a schematic assembly view of FIG. 2.

20 FIG. 4 is a schematic drawing showing a status of use of the transmission cable according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIGS. 2 and 3, a transmission cable 20 is shown for connecting a peripheral apparatus to a computer. The transmission cable 20 can be a universal serial bus or IEEE1394 parallel bus design, comprising a cable 22, 22', two electric connectors 21, 21' respectively connected to the two distal ends of the cable 22, 22', a control device 30 installed in the cable 22, 22', and a cord-like electroluminescent lamp 32, 32' axially mounted in the cable 22, 22' and extended through the control device 30 and electrically connected between the electric connectors 21, 21'. The cable 22, 22' has an electrically insulative transparent outer shell. The electric connectors 21, 21' each are equipped with an indicator light (lighting emitting diode).

The control device 30 comprises a detecting and starting circuit 31 adapted to detect normal connection of the transmission cable between the computer and the peripheral apparatus and to start the cord-like electroluminescent lamp 32, 32' and the LEDs in the electric connectors 21, 21'.

The detecting and starting circuit 31 obtains 5V power supply from the computer, and converts 5V into 140V~180V for the cord-like electroluminescent lamp 32, 32'. The detecting and starting circuit 31 turns on the cord-like electroluminescent

lamp 32, 32' and the LEDs in the electric connectors 21, 21' (see FIG. 4) after normal connection of the transmission cable 20 between the computer and the peripheral apparatus, and drives the cord-like electroluminescent lamp 32, 32' and the
5 LEDs in the electric connectors 21, 21' to flash upon transmission of a signal between the computer and the peripheral apparatus. On the contrary, disconnection of the transmission cable 20 between the computer and the peripheral apparatus causes the detecting and starting circuit 31 to turn off
10 the cord-like electroluminescent lamp 32, 32' and the LEDs in the electric connectors 21, 21'.

Further, the cord-like electroluminescent lamp 32, 32' can be made to produce a particular color of light. By means of the control of the detecting and starting circuit 31, the cord-like
15 electroluminescent lamp 32, 32' is automatically turned on to emit cold light upon connection of the transmission cable 20 between the computer and the peripheral apparatus, and driven to flash upon transmission of a signal between the computer and the peripheral apparatus through the transmission cable 20.

20 Although a particular embodiment of the invention has been described in detail for purposes of illustration, various modifications and enhancements may be made without departing

from the spirit and scope of the invention. Accordingly, the invention is not to be limited except as by the appended claims.